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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,098	07/03/2003	Richard Kai-Tuen Woo	60877-0039	7401
24341 . 7	7590 02/02/2006		EXAMINER	
MORGAN, L 2 PALO ALTO	EWIS & BOCKIUS,	LLP.	KIM, KEVIN	
3000 EL CAM	-		ART UNIT	PAPER NUMBER
PALO ALTO,	CA 94306	·	2638	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/614,098	WOO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kevin Y. Kim	2638			
Period fo	The MAILING DATE of this communication a	appears on the cover sheet with the	correspondence address			
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory perior te to reply within the set or extended period for reply will, by sta- teply received by the Office later than three months after the managed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be till od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
2a)□	Responsive to communication(s) filed on <u>03 July 2003</u> .  This action is <b>FINAL</b> . 2b) This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-41 is/are pending in the application. <ul> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,13,19-22,34,40 and 41 is/are rejected.</li> <li>7)  Claim(s) 2-12,14-18,23-33 and 35-39 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul> </li> </ul>					
Applicati	on Papers					
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority u	inder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D  5)  Notice of Informal F  6)  Other:				

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 13, 22 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by McCrady et al (US 6,665,333).

Claims 1 and 22.

McCrady et al discloses a positioning system and method, comprising a plurality of device, each including;

a transceiver for exchanging RF signals with another device, see Fig.5

local clock for generating a local clock signal (col.9, line 56),

receiver logic for determining a time of arrival of the message from the other device, see col. 8, lines 17-19,

transmitter logic for transmitting message including information representing the determined time of arrival to the other device, see col. 8, lines 19-24, and

a ranging logic for determining a respective range as a function of the determined time of arrival of the message and the time of arrival information in the message. See col.8, lines 24-27.

Claims 13 and 34.

McCrady et al describes a prior art positioning system and method, comprising;

a receiver for receiving a message from another device,

a local clock generator

receiver logic for determining a time of arrival of the message,

ranging logic for determining a respective range to the another device as a function of the determined time of arrival and

clock synchronization logic for adjusting the local clock synchronized with the local clock of the another device. See col. 2, line 34 ~ col.3, line 16.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 19 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCrady et al, as applied to claims 13 and 34 above.

Claims 19 and 40.

These claims requires that the adjusting the local clock "with a precision better than on thousands of a clock cycle." However, how precisely synchronize the clock signal is a obvious matter of design choice and thus the claimed precision would have been obvious to one skilled in the art at the time the invention was made for the purpose of synchronizing the communication devices as much as possible.

6. Claim 20, 21 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCrady et al, as applied to claim 19 above, in view of Eidson (US 6,278,710).

McCrady et al discloses all the subject matter claimed but is silent on the details of the local clock as opposed to the claimed invention which requires a counter updated at a rate controlled by a local oscillator. Eidson teaches implementing a local clock as a counter driven by an oscillator. See col. 3, lines 36-45.

### Allowable Subject Matter

7. Claims 2-12, 14-18, 23-33, 35-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KEVIN KIM BATENT EXAMINER

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